

Frederick County Health Department
Health Indicators Report on Maternal and Child Health
Calendar Year 2012 Data

Report Card – Healthy People 2020

Indicator	Frederick County (as of 2012)	National 2020 Goal	Met National 2020 Goal
Infant Mortality Rate (per 1,000 Live Births)	4.4	6.0	Yes
Preterm Birth	10.5%	11.4%	Yes
Low Weight Births	8.2%	7.8%	No
First Trimester Prenatal Care	76.5%	77.9%	No

Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

Infant Mortality

Infant mortality measures deaths during the first year of life.

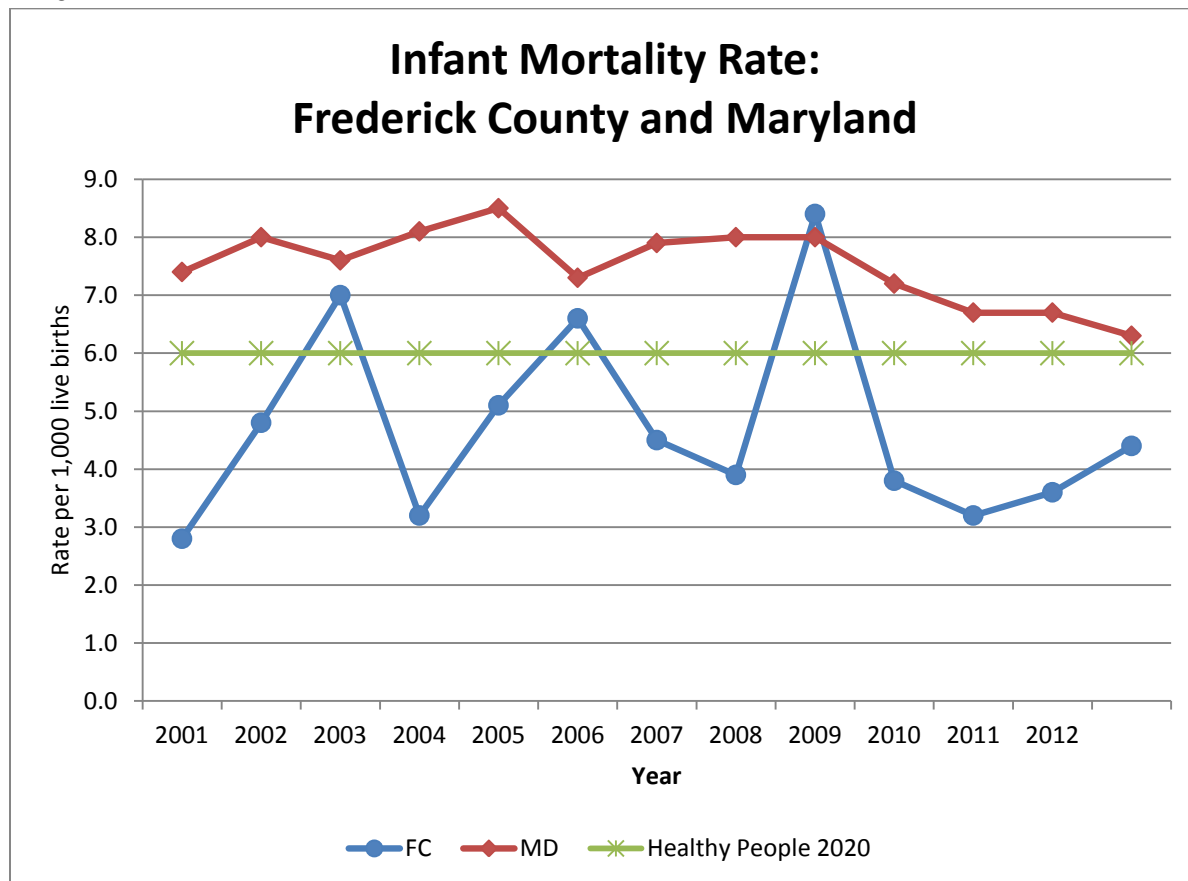
In 2012, there were 12 infant deaths in Frederick County with an overall Infant Mortality Rate (IMR) of 4.4 per 1,000 live births. This rate has come up from the IMR of 3.6, but the overall rate since 2000 is trending downward slightly. The 2012 Frederick County IMR is 30% less than the Maryland rate of 6.3.

	2006	2007	2008	2009	2010	2011	2012
Infant Mortality - All Races per 1,000 Live Births							
Frederick	4.5	3.9	8.4	3.8	3.2	3.6	4.4
Maryland	7.9	8.0	8.0	7.2	6.7	6.7	6.3
United States	6.7	6.8	6.6	6.4	6.1	6.1	
Infant Mortality - Whites per 1,000 Live Births							
Frederick	4.2	2.8	6.6	3.4	3.0	2.2	4.4
Maryland	5.7	4.6	5.2	4.1	4.1	4.0	4.1
United States	5.6	5.6	5.6	5.3	5.2	5.1	
Infant Mortality - Blacks per 1,000 Live Births							
Frederick	*	*	16.6	*	*	16.3	*
Maryland	12.7	14.0	13.4	13.6	11.8	12.0	10.3
United States	13.3	13.2	12.7	12.6	11.6	11.4	

*Rates based on fewer than five events in the numerator are not presented since such rates are likely to be unstable.

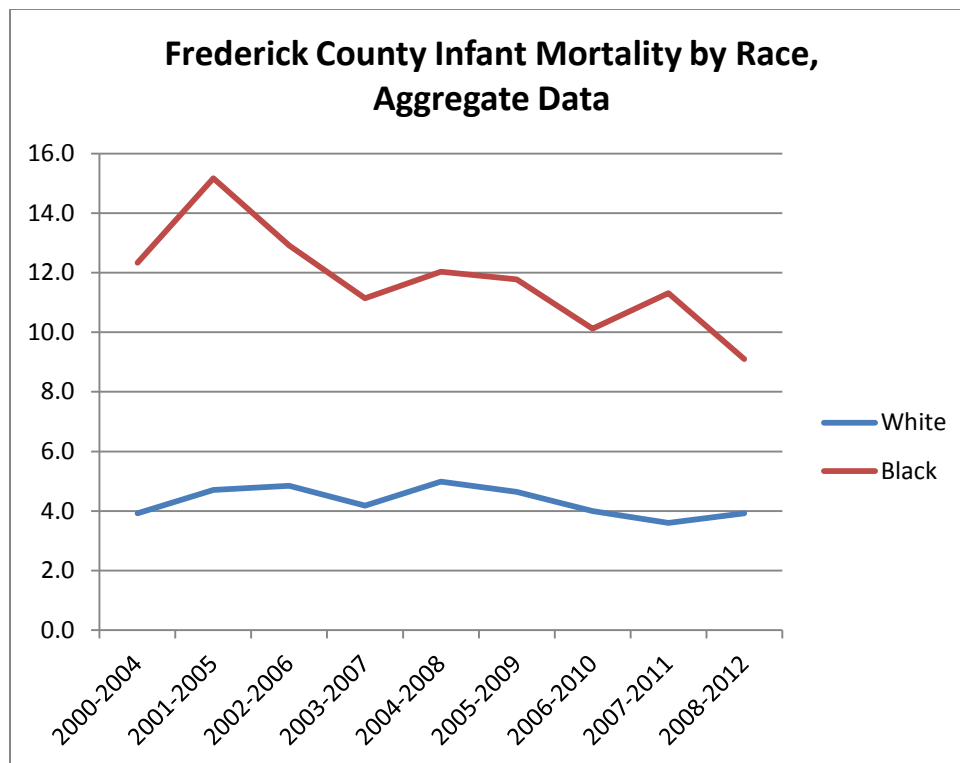
Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

The Healthy People 2020 goal for infant mortality is no more than 6.0 deaths per 1,000 live births. Frederick County has met this goal overall since 2009 and is 27% less than the goal rate in 2012.

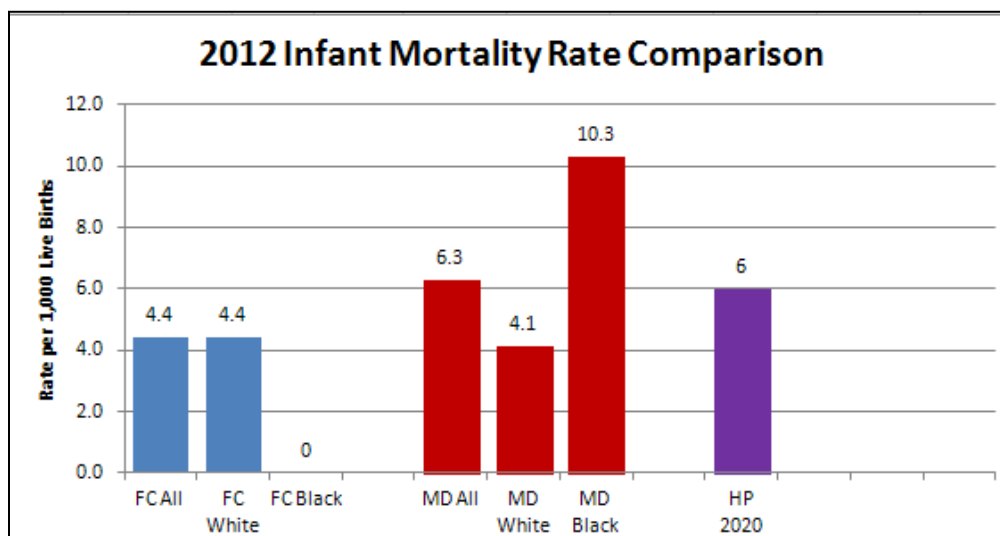


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.
Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

Racial disparity in infant mortality rates has been compared based on five-year aggregate data. Although data shows that the trend in IMR for black infants in Frederick County is going downward, it continues to be two to three times higher than for white infants since 2000.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

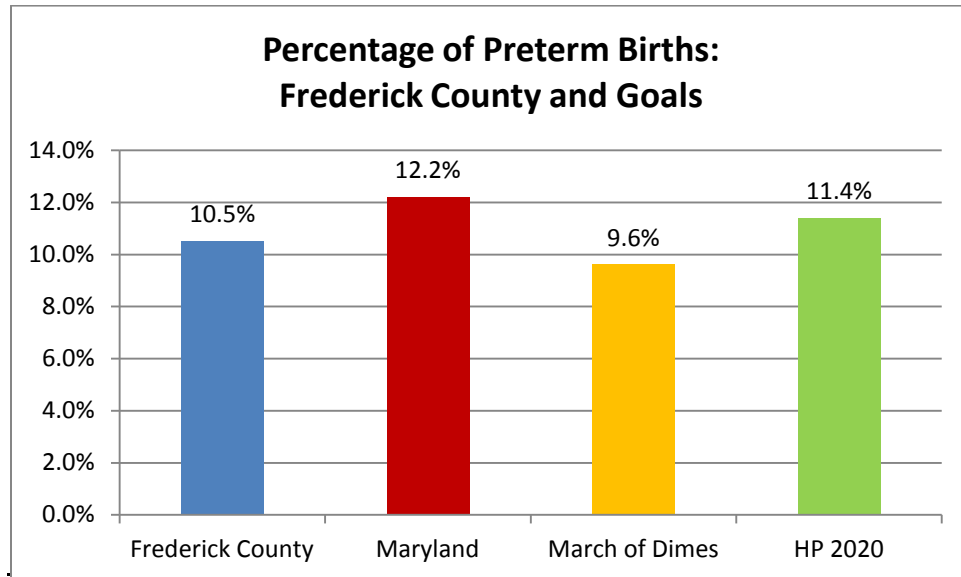


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.
 Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

Preterm Birth

Live births occurring between 20 and 36 weeks of gestation are categorized as preterm births.

In 2012, 10.5% of live births in Frederick County were preterm. The March of Dimes goal is 9.6%, while the Healthy People 2020 goal is 11.4%. Frederick County reported 1.7% fewer preterm births than Maryland in 2012 and the county is currently only meeting the Healthy People 2020 standards.



Data Source: March of Dimes at <http://www.marchofdimes.com/peristats/pdflib/998/MD.pdf>
Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

Low Birth Weight

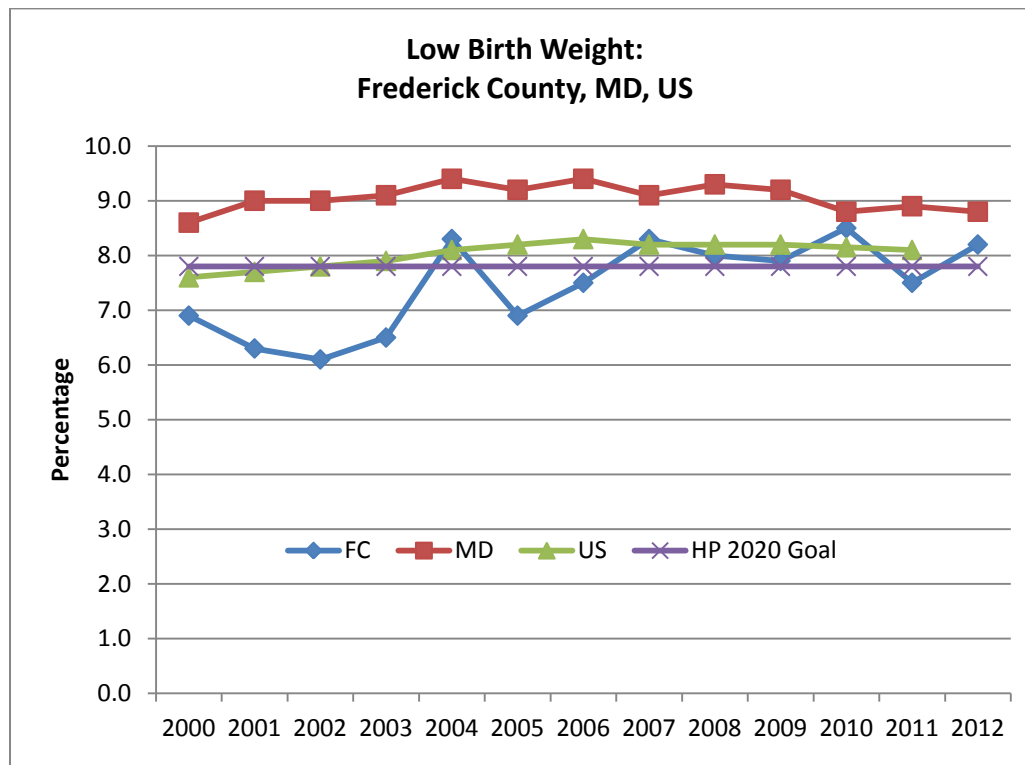
Low birth weight is defined as weight of less than 2500 grams at birth.

In 2012, there were 2,747 births in Frederick County (8.2%) were low birth weight, which was an increased from 7.5% in 2011.

Percent of Low Birth Weight Infants (<2500 grams or approximately 5.5 lbs)							
	2006	2007	2008	2009	2010	2011	2012
Frederick	7.5%	8.3%	8.0%	7.9%	8.5%	7.5%	8.2%
Maryland	9.4%	9.1%	9.3%	9.2%	8.8%	8.9%	8.8%
United States	8.3%	8.2%	8.2%	8.2%	8.2%	8.1%	--

Data Source: Maryland Vital Statistics Reports, Division of Health Statistics,

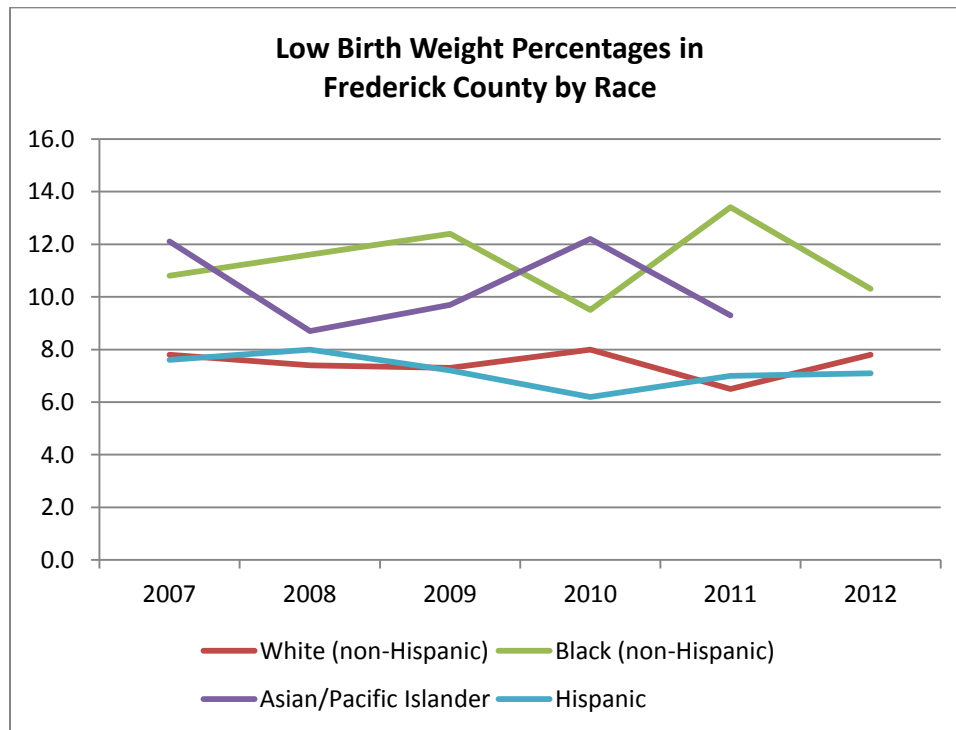
The Healthy People 2020 goal is for no more than 7.8% of births to be classified as low birth weight. Frederick County didn't meet this goal in 2012 although we had met it the previous year in 2011. Frederick County has consistently had a lower percentage of low birth weight than Maryland and trended very closely to the U.S. data.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics,
Maryland DHMH; National Center for Health Statistics, CDC.

Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

Racial disparities exist causing not all racial groups meet the Healthy People 2020 goal. Blacks and Asian/Pacific Islanders have a higher percentage of low birth weights than Whites and Hispanics in Frederick County, with Blacks showing the largest disparity although there has been a significant drop in the past year.

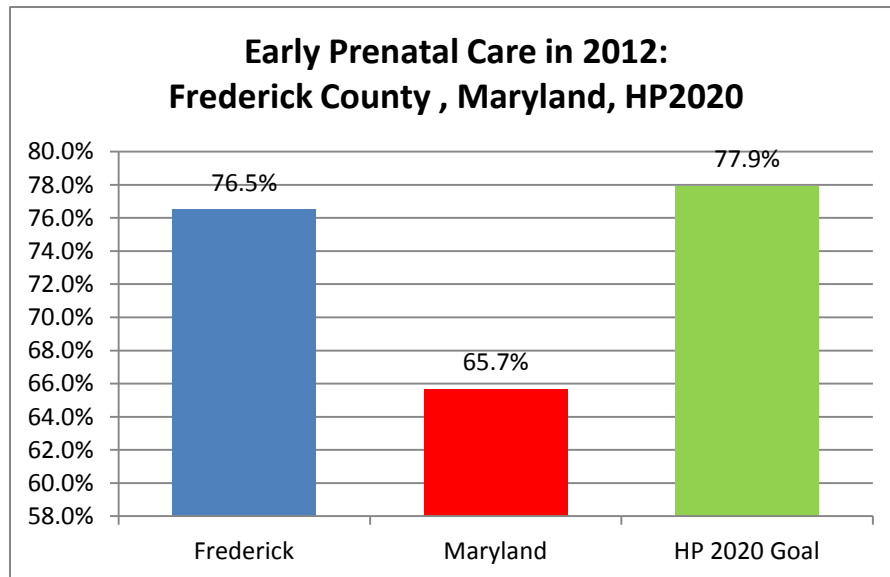


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

Early Preterm Care

Early entry into prenatal care is defined as prenatal care beginning in the 1st trimester of pregnancy.

In 2012, 76.5% of all women giving birth in Frederick County reported receiving prenatal care during their first trimester of pregnancy. This number has grown since the previous year but still falls short of the Healthy People 2020 goal of 77.9%.

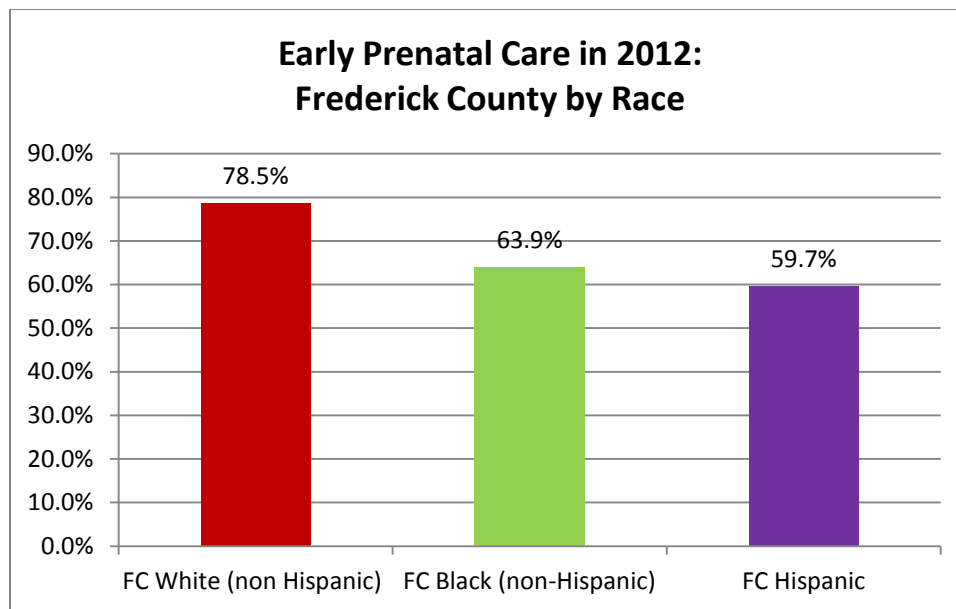


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

Healthy People 2020, <http://www.healthypeople.gov/2020/topicsobjectives2020/>

The methodology for collecting information on the time during pregnancy that prenatal care began was changes in the 2010 revision of the Maryland birth certificate. As a result, prenatal care data collected after 2009 are not comparable to data collected in earlier years. For this reason, trend data are not shown.

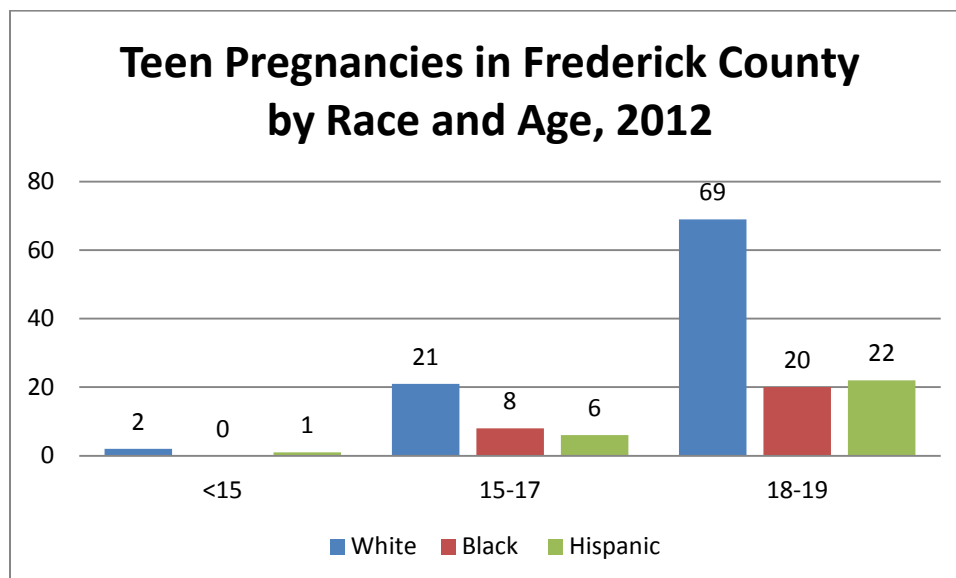
The racial breakdown of early prenatal care data shows some disparity between the racial groups. The White non-Hispanic group meets the Healthy People 2020 goal, but the Black non-Hispanic and Hispanic populations do not and are still lower than the white non-Hispanic group.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

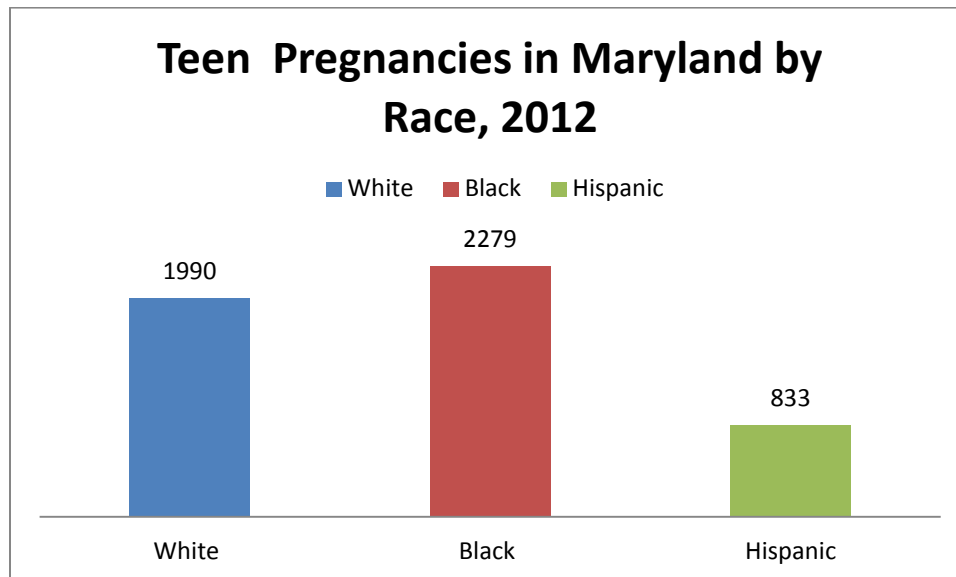
Teen Child Birth

The race with the highest risk for teen pregnancy in Frederick County is white females ages 18-19.

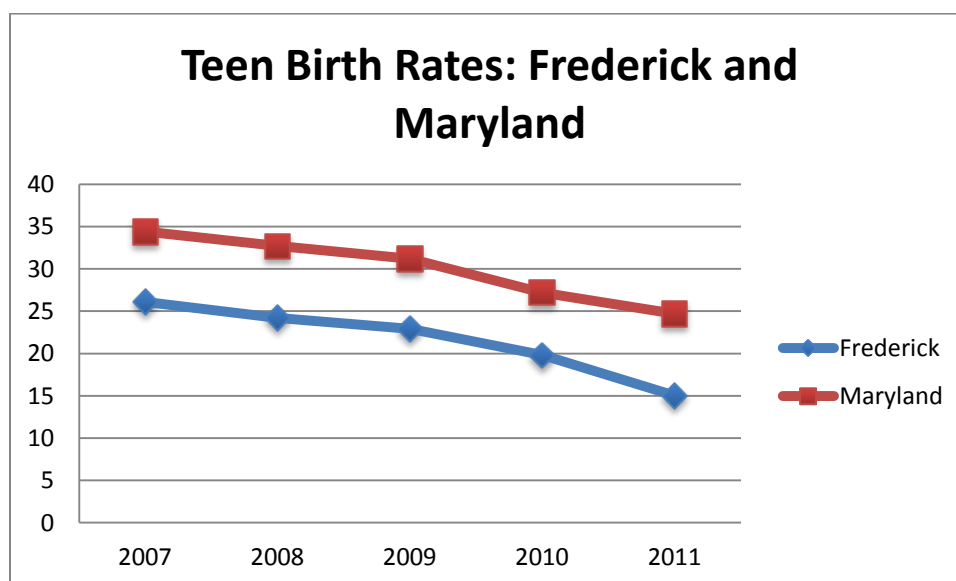


Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.

The racial breakdown for teen pregnancy in the state of Maryland shows some disparity between the racial groups. Teen pregnancy among black females is much higher than among White and Hispanic females.



Data Source: Maryland Vital Statistics Reports, Division of Health Statistics, Maryland DHMH; National Center for Health Statistics, CDC.



Since 2007 teen birth rates for both Maryland and Frederick County have consistently declined. Frederick County rates are significantly lower than the state of Maryland's teen birth rates.

Vital Statistics Formulas

Infant Mortality Rate: Number of Infant Deaths/ Total Number of Live Births *then* (x1000)

% Low Birth Weight Births: Number of Low Birth Weight Infants Born Alive/ Total Number of Live Births *then* (x100)

% Early Prenatal Care: Total Number of Births Prenatal Care Began in the First Trimester / Total Number of Births Prenatal Care Began in the Any Trimester – including No Care and Unknown *then* (x100)

Infant Mortality Racial Disparity: = One Racial Group's Infant Mortality Rate/ A comparison Group's Infant Mortality Rate.

GLOSSARY OF TERMS

EARLY PRENATAL CARE: Prenatal care accessed within the first trimester (conception through week 12) of pregnancy.

LOW BIRTH WEIGHT: The weight of an infant at birth that is equal to or less than 2499 grams (5lbs, 8.14 oz).

RACIAL DISPARITY: The quotient of one racial group's Infant Mortality Rate divided by a comparison racial group's Infant Mortality Rate. It is used to gauge by what multiple is the condition or fact of IMR different between one racial group of the population versus another racial group of the population.

AGGREGATE ANALYSIS: Is a reference to data combined from several measurements. In this report, it is referred to data combined from the IMR data of the past 5 consecutive years as compared with several previous 5 year data group analyses. When there are less than 5 occurrences of a group's infant mortality within a particular year, that data is not counted as it would render the formula to be statistically unstable.